

Supplementary Table 1

A. Association of the *Rag* locus to pericentromeric heterochromatin in WT pro-B cells throughout cell cycle. (2 of 3 experiments shown)

Experiment 1

Association of the *Rag* locus to pericentromeric heterochromatin in WT pro-B cell cultures.

Cell type	No association		Association of at least one allele		Sample size cells
	number	(%)	number	(%)	
total	267	(63)	154	(37)	421
G0/G1/S	225	(67)	111	(33)	336
G2	42	(49)	43	(51)	85

Association of the *Igh* locus to pericentromeric heterochromatin in WT pro-B cell cultures.

Cell type	No association		Association of at least one allele		Sample size cells
	number	(%)	number	(%)	
total	234	(58)	172	(42)	406
G0/G1/S	189	(58)	136	(42)	325
G2	45	(56)	36	(44)	81

Association of the *Rag* locus to pericentromeric heterochromatin in v-Abl B cell line.

Cell type	No association		Association of at least one allele		Sample size cells
	number	(%)	number	(%)	
total	159	(62)	99	(38)	258
G0/G1/S	110	(62)	68	(38)	178
G2	49	(61)	31	(39)	80

Experiment 2 (duplicate experiment)

Association of the *Rag* locus to pericentromeric heterochromatin in WT pro-B cell cultures.

Cell type	No association		Association of at least one allele		Sample size cells
	number	(%)	number	(%)	
total	222	(57)	169	(43)	391
G0/G1/S	150	(61)	96	(39)	246
G2	72	(50)	73	(50)	145

Association of the *Igh* locus to pericentromeric heterochromatin in WT pro-B cell cultures.

Cell type	No association		Association of at least one allele		Sample size cells
	number	(%)	number	(%)	
total	161	(78)	46	(22)	207
G0/G1/S	100	(75)	33	(25)	133
G2	61	(82)	13	(18)	74

Association of the *Rag* locus to pericentromeric heterochromatin in v-Abl B cell line.

Cell type	No association		Association of at least one allele		Sample size cells
	number	(%)	number	(%)	
total	171	(68)	81	(32)	252
G0/G1/S	106	(68)	49	(32)	155
G2	65	(67)	32	(33)	97

B. Statistical analysis of allele specific (*Rag* or *Igh*) association with pericentromeric heterochromatin during cell cycle.

Experiment 1

Cell cycle stage 1		Cell cycle stage 2	Cell type	Locus	P value	Level
G0/G1/S	vs	G2	WT	<i>Rag</i>	0.00362	**
			WT	<i>Igh</i>	0.707	ns
			v-Abl	<i>Rag</i>	1	ns

Experiment 2 (duplicate experiment)

Cell cycle stage 1		Cell cycle stage 2	Cell type	Locus	P value	Level
G0/G1/S	vs	G2	WT	<i>Rag</i>	0.0345	*
			WT	<i>Igh</i>	0.295	ns
			v-Abl	<i>Rag</i>	0.889	ns

ns =not significant

* = $0.05 > P > 0.01$

** = $0.01 > P > 0.001$

*** = $0.001 > P$

Supplementary Table 2

A. Association of the *Rag* locus to pericentromeric heterochromatin in WT and *caStat5* pro-B cells. (2 of 3 experiments shown)

Experiment 1

Cell type	No association		Association of at least one allele		Sample size
	number	(%)	number	(%)	
WT	163	(82)	37	(19)	200
<i>caStat5</i>	143	(72)	57	(29)	200

Experiment 2 (duplicate experiment)

Cell type	No association		Association of at least one allele		Sample size
	number	(%)	number	(%)	
WT	125	(83)	25	(17)	150
<i>caStat5</i>	104	(70)	45	(30)	149

B. Statistical analysis of *Rag* locus association with pericentromeric heterochromatin in WT and *caStat5* pro-B cells.

Experiment 1

Cell type 1	Cell type 2	P value	Level
WT pro-B	vs <i>caStat5</i> pro-B	0.0247	*

Experiment 2 (duplicate experiment)

Cell type 1	Cell type 2	P value	Level
WT pro-B	vs <i>caStat5</i> pro-B	0.00635	**

ns =not significant

* = 0.05 > P > 0.01

** = 0.01 > P > 0.001

*** = 0.001 > P

Supplementary Table 3

A. Recruitment of the *Rag* locus to pericentromeric heterochromatin in indicated cell types.

Experiment 1

Cell stage	genotype	No recruitment		Recruitment of at least one allele		Sample size cells
		number	(%)	number	(%)	
Pro-B	WT	123	(67)	61	(33)	184
	<i>Erag</i> ^{-/-}	115	(64)	65	(36)	180

Experiment 2 (duplicate experiment)

Cell stage	genotype	No recruitment		Recruitment of at least one allele		Sample size cells
		number	(%)	number	(%)	
Pro-B	WT	138	(72)	54	(28)	192
	<i>Erag</i> ^{-/-}	134	(72)	51	(28)	185

B. Statistical analysis of *Rag* locus association with pericentromeric heterochromatin in indicated cell types.

Experiment 1

Cell type 1	Cell type 2	P value	Level
WT pro-B	vs <i>Erag</i> ^{-/-} pro-B	0.582	ns

Experiment 2 (duplicate experiment)

Cell type 1	Cell type 2	P value	Level
WT pro-B	vs <i>Erag</i> ^{-/-} pro-B	0.909	ns

ns =not significant

* = 0.05 > P > 0.01

** = 0.01 > P > 0.001

*** = 0.001 > P